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Substitute for form 1449-PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				<i>Complete if Known</i>	
				Application Number	10/693,419
				Filing Date	2003-10-23
				First Named Inventor	J. RODNEY WALTON
				Art Unit	2467
				Examiner Name	SMITH, MARCUS
Sheet	1	of	11	Attorney Docket No: 020554	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ^{2(If known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	001	US5241544	08-31-1993	JASPER; Steven C. et al.	
	002	US5295159	03-15-1994	KERPEZ; Kenneth J.	
	003	US5471647	11-28-1995	GERLACH; Derek. et al.	
	004	US5606729	02-25-1997	D'AMICO; Thomas V. et al.	
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	006	US5886988	03-23-1999	YUN; Louis C. et al.	
	007	US6084915	07-04-2000	WILLIAMS; Richard G. C.	
	008	US6131016	10-10-2000	GREENSTEIN; Lawrence Joel. et al.	
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	011	US6178196	01-23-2001	NAGUIB; Ayman F. et al.	
	012	US6232918	05-15-2001	WAX; Mati. et al.	
	013	US6266528	07-24-2001	FARZANEH; Farhad.	
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	019	US6346910	02-12-2002	ITO; Tei.	

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	020	US6348036	02-19-2002	LOONEY; Christopher S. et al.	
	021	US6377812	04-23-2002	RASHID-FARROKHI; Farrokh. et al.	
	022	US6385264	05-07-2002	TERASAWA; Daisuke. et al.	
	023	US6452981	09-17-2002	RALEIGH; Gregory G. et al.	
	024	US6473467	10-29-2002	WALLACE; Mark. et al.	
	025	US6532562	03-11-2003	CHOU; Philip A. et al.	
	026	US6574211	06-03-2003	PADOVANI; Roberto. et al.	
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	028	US6594798	07-15-2003	CHOU; Philip A. et al.	
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	030	US6611231	08-26-2003	CRILLY; Jr. William J. et al.	
	031	US6615024	09-02-2003	BOROS; Tibor. et al.	
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	034	US6683916	01-27-2004	SARTORI; Philippe Jean-Marc. et al.	
	035	US6690660	02-10-2004	KIM; Younglok. et al.	
	036	US6738020	05-18-2004	LINDSKOG; Erik D. et al.	
	037	US6751187	06-15-2004	WALTON; Jay R. et al.	
	038	US6751444	06-15-2004	MEIYAPPAN; Palaniappan.	

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	039	US6751480	06-15-2004	KOGIANTIS; Achilles George. et al.	
	040	US6760388	07-06-2004	KETCHUM; John W. et al.	
	041	US6771706	08-03-2004	LING; Fuyun. et al.	
	042	US6785341	08-31-2004	WALTON; Jay R. et al.	
	043	US6788948	09-07-2004	LINDSKOG; Erik D. et al.	
	044	US6795424	09-21-2004	KAPOOR; Samir. et al.	
	045	US6802035	10-05-2004	CATREUX; Severine. et al.	
	046	US6850498	02-01-2005	HEATH; Robert W. et al.	
	047	US6859503	02-22-2005	PAUTLER; Joseph J. et al.	
	048	US6873651	03-29-2005	TESFAI; Yohannes. et al.	
	049	US6879578	04-12-2005	PAN; Jung-Lin. et al.	
	050	US6885708	04-26-2005	THOMAS; Timothy A. et al.	
	051	US6888809	05-03-2005	FOSCHINI; Gerard Joseph. et al.	
	052	US6937592	08-30-2005	HEATH; Jr. Robert W. et al.	
	053	US6963742	11-08-2005	BOROS; Tibor. et al.	
	054	US6965762	11-15-2005	SUGAR; Gary L. et al.	
	055	US6985434	01-10-2006	WU; Shiquan. et al.	
	056	US7031671	04-18-2006	MOTTIER; David.	
	057	US7062294	06-13-2006	ROGARD; Roger. et al.	
	058	US7072381	07-04-2006	ATARASHI; Hiroyuki. et al.	

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		Filing Date	2003-10-23
		First Named Inventor	J. RODNEY WALTON
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	059	US7072410	07-04-2006	MONSEN; Peter.	
	060	US7072413	07-04-2006	WALTON; Jay R. et al.	
	061	US7088671	08-08-2006	MONSEN; Peter.	
	062	US7099377	08-29-2006	BERENS; Friedbert. et al.	
	063	US7110378	09-19-2006	ONGGOSANUSI; Eko Nugroho. et al.	
	064	US7110463	09-19-2006	WALLACE; Mark S. et al.	
	065	US7113499	09-26-2006	NAFIE; Mohammed. et al.	
	066	US7149254	12-12-2006	SAMPATH; Hemanth.	
	067	US7155171	12-26-2006	EBERT; Paul Michael. et al.	
	068	US7187846	03-06-2007	SCHRAMM; Peter.	
	069	US7197084	03-27-2007	KETCHUM; John W. et al.	
	070	US7200404	04-03-2007	PANASIK; Carl M. et al.	
	071	US7206354	04-17-2007	WALLACE; Mark S. et al.	
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	073	US7224704	05-29-2007	LU; Xiaolin. et al.	
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	075	US7233625	06-19-2007	MA; Jianglei. et al.	
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	077	US7254171	08-07-2007	HUDSON; John E.	
	078	US7263119	08-28-2007	HSU; Yungping. et al.	
	079	US7280625	10-09-2007	KETCHUM; John W. et al.	

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Sheet	5	of	11	Attorney Docket No: 020554	

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	080	US7289570	10-30-2007	SCHMIDL; Timothy. et al.	
	081	US7298778	11-20-2007	VISOZ; Raphael. et al.	
	082	US7317750	01-08-2008	SHATTIL; Steve J.	
	083	US7342912	03-11-2008	KERR; Adam B. et al.	
	084	US7386076	06-10-2008	ONGGOSANUSI; Eko N. et al.	
	085	US7403748	07-22-2008	KESKITALO; Ilkka. et al.	
	086	US7421039	09-02-2008	MALAENDER; Laurence Eugene. et al.	
	087	US7606296	10-20-2009	HSU; Yungping. et al.	
	088	US20020018453	02-14-2002	YU, Yao; et al.	
	089	US20020044591	04-18-2002	LEE, Hyun-Woo; et al.	
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	094	US20030139194	07-24-2003	ONGGOSANUSI, Eko N. et al.	
	095	US20030153360	08-14-2003	BURKE, Joseph P. et al.	
	096	US20030157954	08-21-2003	MEDVEDEV, Irina; et al.	
	097	US20030235255	12-25-2003	KETCHUM, John W. et al.	
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	102	US20020057659	05-16-2002	OZLUTURK; Fatih M. et al.	
	103	US20020085620	07-04-2002	MESECHER; David K.	
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	107	US20020196842	12-26-2002	ONGGOSANUSI; Eko N. et al.	
	108	US20030078024	04-24-2003	MAGEE; David Patrick. et al.	
	109	US20030095197	05-22-2003	WHEELER; Richard B. et al.	
	110	US20030099306	05-29-2003	NILSSON; Johan. et al.	
	111	US20030162519	08-28-2003	SMITH; Martin. et al.	
	112	US20030206558	11-06-2003	PARKKINEN; Teemu. et al.	
	113	US20030235149	12-25-2003	CHAN; Albert. et al.	
	114	US20040085939	05-06-2004	WALLACE; Mark S. et al.	
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	116	US20040198276	10-07-2004	TELLADO; Jose. et al.	
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	120	US20060104196	05-18-2006	WU; Shiquan; et al.	
	121	US20020115473	08-22-2002	HWANG, Jong Yoon ; et al.	
	122	US20020147953	10-10-2002	CATREUX, Severine ; et al.	
	123	US20020122381	09-05-2002	WU, Shiquan; et al.	
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	125	EP1185048	06-03-2002	NORTEL NETWORKS LTD [CA]		<input type="checkbox"/>
	126	CN1308794	08-15-2001	ARRAYCOMM INC [US]		<input checked="" type="checkbox"/>
	127	JP2002176379	06-21-2002	JAPAN TELECOM CO LTD		<input checked="" type="checkbox"/>
	128	WO199809381	03-05-1998	UNIV LELAND STANFORD JUNIOR [US]		<input type="checkbox"/>
	129	WO199830047	07-09-1998	ARRAYCOMM INC [US]		<input type="checkbox"/>
	130	WO2002003557	01-10-2002	IOSPAN WIRELESS INC [US]		<input type="checkbox"/>
	131	WO2002069523	09-06-2002	MAGNOLIA BROADBAND INC [US]		<input type="checkbox"/>
	132	DE19951525A1	06-07-2001	SIEMENS AG [DE].		<input checked="" type="checkbox"/>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT														
(Use as many sheets as necessary)														
Sheet	8	of	11	Attorney Docket No: 020554										

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ² Number ³ Kind Code ⁴ (if known)			
	133	EP0805568A1	11-05-1997	TRW INC [US].	<input type="checkbox"/>
	134	EP0951091A2	10-20-1999	LUCENT TECHNOLOGIES INC [US].	<input type="checkbox"/>
	135	EP1087545A1	03-28-2001	UNIV SINGAPORE [SG].	<input type="checkbox"/>
	136	EP1117197A2	07-18-2001	LUCENT TECHNOLOGIES INC [US].	<input type="checkbox"/>
	137	EP1175022A2	01-23-2002	SAMSUNG ELECTRONICS CO LTD [KR].	<input type="checkbox"/>
	138	EP1182799A2	02-27-2002	LUCENT TECHNOLOGIES INC [US].	<input type="checkbox"/>
	139	JP2001237751A	08-31-2001	LUCENT TECHNOLOGIES INC.	<input checked="" type="checkbox"/>
	140	RU2015281C1	06-30-1994	KONDRASHOV BORIS M [RU].	<input checked="" type="checkbox"/>
	141	RU2152132C1	06-27-2000	J NII SVJAZI. et al.	<input checked="" type="checkbox"/>
	142	WO0011823A1	03-02-2000	RADIX TECHNOLOGIES INC [US]. et al.	<input type="checkbox"/>
	143	WO0036764A2	06-22-2000	NOKIA NETWORKS OY [FI]. et al.	<input type="checkbox"/>
	144	WO0197400A2	12-20-2001	QUALCOMM INC [US].	<input type="checkbox"/>
	145	WO0201732A2	01-03-2002	NOKIA CORP [FI]. et al.	<input type="checkbox"/>
	146	WO02060138A2	08-01-2002	QUALCOMM INC [US].	<input type="checkbox"/>
	147	WO0215433A1	02-21-2002	FUJITSU LTD [JP]. et al.	<input type="checkbox"/>
	148	WO03034646A2	04-24-2003	NORTEL NETWORKS LTD [CA].	<input type="checkbox"/>
	149	WO200171928	09-27-2001	QUALCOMM INC [US]	<input type="checkbox"/>

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	150	WO200171928	09-27-2001	QUALCOMM INC [US]		<input type="checkbox"/>
	151	WO9622662A1	07-25-1996	ARRAYCOMM INC [US].		<input type="checkbox"/>
	152	WO99016214	04-01-1999	COMMW SCIENT IND RES ORG [AU] ET AL.		<input type="checkbox"/>
	153	WO9957820	11-11-1999	ARRAYCOMM INC [US]		<input type="checkbox"/>
	154	WO04039022	05-06-2004	QUALCOMM INC [US]		<input type="checkbox"/>
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	155	3GPP2 T1A/E1A/IS-2000-2-A, "Physical Layer Standard for cdma2000 Spread Spectrum Systems", (November 19, 1999).				
	156	B. HASSIBI, et al. "High-Rate Codes that are Linear in Space and Time," LUCENT Technologies, Murray Hill, NY (USA), Aug. 22, 2000, (pp. 1-54).				
	157	GAO, et al. "On implementation of Bit-Loading Algorithms for OFDM Systems with Multiple-Input Multiple Output," VTC 2002-Fall, 2002 IEEE 56th. Vehicular Technology Conference Proceedings. Vancouver, Canada, Sept. 24-28, 2002, IEEE Vehicular Technology Con.				
	158	HAYASHI, K, A New Spatio-Temporal Equalization Method Based On Estimated Channel Response, Sept. 2001, IEEE Transaction on Vehicular Technology, vol. 50, Issue 5, pp. 1250-1259.				
	159	BINGHAM, John A.C., "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come," IEEE Communications Magazines, May 1990 (pgs. 5-13).				

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	160	JONGREN et al., "Utilizing Quantized Feedback Information in Orthogonal Space-Time Block Coding," 2000 IEEE Global Telecommunications Conference, 2(4): 995-999, November 27, 2000.		
	161	KIESSLING, et al., "Short-Term and Long Term Diagonalization of Correlated MIMO Channels with Adaptive Modulation," IEEE Conference, vol. 2, (2002-09-15), pgs. 593-597.		
	162	L. DENEIRE, et al. "A LOW COMPLEXITY ML CHANNEL ESTIMATOR FOR OFDM," PROC IEEE ICC JUNE 2001 pgs. 1461-1465.		
	163	MIYASHITA, et al., "High Data-Rate Transmission with Eigenbeam-Space Division Multiplexing (E-SDM) in a MIMO Channel," VTC 2002-Fall. 2002 IEEE 56th. Vehicular Technology Conference Proceedings. Vancouver, Canada, Sept. 24-28, 2002, IEEE Vehicular Technology.		
	164	P.W. WOLNIANSKY, et al. "V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel," LUCENT Technologies, Holmdel, NJ.		
	165	S. M. ALAMOUTI "A Simple Transmit Diversity Technique for Wireless Communications" IEEE Journal on Select Areas in Communications, October 1998, vol. 16, no. 8, pp. 1451-1458.		
	166	TARIGHAT, A. et al. "Performance Analysis of Different Algorithms for cdma2000 Antenna Array System and a New Multi User Beamforming (MUB) Algorithm", Wireless Communications and Networking Conference, Vol. 1, pgs. 409-414, Sep. 23, 2000.		
	167	DAE-KO HONG, Young-Jo Lee, Daesik Hong, and Chang-Eon Kang. "Robust frequency offset estimation for pilot symbol assisted packet CDMA with MIMO antenna systems." Communications Letters. IEEE. June 2002.		
	168	S.W. WALES, A MIMO technique within the UTRA TDD standard 06/22/05.		

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